



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations for 2015/2016 Academic Year

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTING AND INFORMATION TECHNOLOGY

SECOND SEMESTER EXAMINATION FOR DEGREE IN BACHELOR OF SCIENCE IN COMPUTER SCIENCE

SCO 423: INFORMATION SYSTEMS AUDITING

Date: 9/8/2016

Time: 8:30 – 10:30 AM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE (30 MARKS)

- (a) Define contingency planning and explain its need in business continuity. (4 marks)
- (b) Using a well-drawn bulls-eye model, explain policy centric Decision making. (4 marks)
- (c) Explain the following cyber-crimes. (10 marks)
 - (i) Theft of services
 - (ii) Root Kit
 - (iii) Spy ware
 - (iv) Phishing
 - (v) Warez
- (d) Using a diagram, explain three security goals used in information security. (6 marks)
- (e) Explain 6Ps in assessing a System. (6 marks)

QUESTION TWO (20 MARKS)

- (a) Explain three components of contingency planning (CP). (6 marks)

- (b) State the steps to be undertaken by contingency plannersto ensure continuity across all CP processes. (6 marks)
- (c) Use a well labelled diagram to show contingency plan implementation timeline. (8 marks)

QUESTION THREE (20 MARKS)

- (a) State four testing strategies that can be used to test contingency plans. (4 marks)
- (b) Explain any four steps of computer forensics. (8 marks)
- (c) Explain any four technical controls when dealing with physical security (8 marks)

QUESTION FOUR (20 MARKS)

- (a) Explain any four ways of authenticating users before they are allowed to use a system. (8 marks)
- (b) State any five incident containment strategies as used in disaster recovery. (5 marks)
- (c) Using a diagram, show major tasks in contingency planning. (7 marks)

QUESTION FIVE (20 MARKS)

- (a) Develop a single contingency plan for Machakos University College Information, under the following sub-headings. (20 marks)
 - (i) Incident Response
 - (ii) Disaster Recovery.
 - (iii) Business Continuity Planning using business impact analysis.
 - (iv) Prepare and execute a test of contingency plans.